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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/488,129	01/20/2000	Patrick W. Mullen	1571.1144001	3992
21005	7590 10/12/2004		EXAM	INER
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.			CHEVALIER, ALICIA ANN	
530 VIRGIN	IA ROAD			
P.O. BOX 9133			ART UNIT	PAPER NUMBER
CONCORD	MA 01742-0133		1772	

DATE MAILED: 10/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	09/488,129	MULLEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Alicia Chevalier	1772			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of the statutory minimum of the statutory minimum of the statutory minimum of the statutory and will expire SIX (6) MG. cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DIAMPONED (35 U.S.C. 8 133)			
Status					
1)⊠ Responsive to communication(s) filed on 18 Au	iaust 2004				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-6,11-15,18,22-27 and 29-49 is/are p 4a) Of the above claim(s) 34-43 is/are withdraw 5) ☐ Claim(s) 1-6,11-15,18,22-27,29-31 and 49 is/are 6) ☐ Claim(s) 32,44 and 46-48 is/are rejected. 7) ☐ Claim(s) 33 and 45 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration. e allowed.	٦.			
Application Papers					
9) The specification is objected to by the Examiner	•				
10) The drawing(s) filed on is/are: a) acce	pted or b) objected to	by the Examiner.			
Applicant may not request that any objection to the d	lrawing(s) be held in abeya	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attache	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign part a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau	have been received. have been received in a ty documents have been (PCT Rule 17.2(a)).	Application No received in this National Stage			
* See the attached detailed Office action for a list o	f the certified copies no	t received.			
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Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) s)/Mail Date Informal Patent Application (PTO-152)			

RESPONSE TO AMENDMENT

1. Claims 1-6, 11-15, 22-27 and 29-49 are pending in the application, claims 34-43 are withdrawn from consideration. Claims 7-10, 16, 17 and 19-21 have been cancelled.

2. Amendments to the claims, filed on August 18, 2004, have been entered in the above-identified application.

REJECTIONS

3. The 35 U.S.C. §103 rejection of claims 32, 44 and 46-48 as over Benson et al. (US Patent No. 6,287,670) in view of Martin et al. (U.S. Patent No. 5,786,066) is repeated for reasons previously made of record in the office action mailed May 18, 2004, pages 3-6, paragraph #7.

Allowable Subject Matter

- 4. Claims 1-6, 11-15, 18, 22-27, 29-31 and 49 allowed, having claims 1 and 25 as base claims.
- 5. Claims 33 and 45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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ANSWERS TO APPLICANT'S ARGUMENTS

6. Applicant's arguments in the response filed August 18, 2004 regarding the 35 U.S.C. 103 rejection over Benson in view of Martin of record have been carefully considered but are deemed unpersuasive.

Applicant argues that Martin does not teach chips with each chip length less than about 457 micrometers. Then Applicant points out that although the height of the prisms is about 449 micrometers, the length along the window side of each prism is about 898 micrometers.

The Examiner does not understand how or where Applicant found the height of the prisms to be 449 micrometers and the lengths along the "window" side to be 898 micrometers. The only height the Examiner is able to find in the reference is in column 2, lines 49-50, where it recites microprisms 14, about 2.8 mils high, which is equivalent to 71 micrometers in height. Furthermore, Applicant merely repeats what the examiner pointed out reference that Martin discloses at column 3, lines 36-37 that individual retroreflective prism have side dimensions of less than about 0.025 inches (635 micrometers), but does not explain why this section does not teach Applicant's claimed limitation chip length less than about 457 micrometers. Applicant's arguments fail to specifically point out how the reference fails to meet the claimed limitation.

Applicant further argues that the Examiner is improperly combining the teachings of Benson and Martin because Benson discloses an open-faced sheeting while Martin discloses a traditional cub-corner prism.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching,

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suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Martin discloses that retroreflective sheet/array can be cut into thousands of very small individual retroreflective prisms and mixed with paint or transparent binder and applied as a decorative retroreflective coating (Martin col. 3, lines 36-44). Irregardless of whether the retroreflective prisms are open-faced or traditional, Martin still discloses that individual retroreflective prisms are useful in paint or binders to create decorative retroreflective coatings. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to make Benson's retroreflective sheeting into individual retroreflective chips with a length of less than about 457 micrometers as taught by Martin in order allow the retroreflective sheeting to be mixed with a matrix. One of ordinary skill in the art would have been motivated to make Benson's retroreflective sheeting into small chips because it would allow the chips to be mixed with paint or a transparent binder and applied as a decorative retroreflective coating to a suitable substrate, such as, fabrics, wood, plastic or metal panels, or the like (col. 3, lines 37-40).

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ac

10/5/04

HAROLD PYON
SUPERVISORY PATENT EXAMINER

10/5/04